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FIGURE 1 - The amino acid sequence of native human coagulation Factor VII (SEQ ID NO. 1)

Ala-Asn-Ala-Phe-Leu-GLA-GLA-Leu-Arg-Pro-Gly-Ser-Leu-GLA-Arg-GLA-Cys-Lys-

5 10 15

GLA-GLA-Gln-Cys-Ser-Phe-GLA-GLA-Ala-Arg-GLA-Ile-Phe-Lys-Asp-Ala-GLA-Arg-20 25 30 35

Thr-Lys-Leu-Phe-Trp-Ile-Ser-Tyr-Ser-Asp-Gly-Asp-Gln-Cys-Ala-Ser-Ser-Pro-40 45 50

Cys-Gln-Asn-Gly-Gly-Ser-Cys-Lys-Asp-Gln-Leu-Gln-Ser-Tyr-Ile-Cys-Phe-Cys-55 60 65 70

Leu-Pro-Ala-Phe-Glu-Gly-Arg-Asn-Cys-Glu-Thr-His-Lys-Asp-Asp-Gln-Leu-Ile75 80 85 90

Cys-Val-Asn-Glu-Asn-Gly-Gly-Cys-Glu-Gln-Tyr-Cys-Ser-Asp-His-Thr-Gly-Thr-95 100 105

Lys-Arg-Ser-Cys-Arg-Cys-His-Glu-Gly-Tyr-Ser-Leu-Leu-Ala-Asp-Gly-Val-Ser110 115 120 125

Cys-Thr-Pro-Thr-Val-Glu-Tyr-Pro-Cys-Gly-Lys-Ile-Pro-Ile-Leu-Glu-Lys-Arg130 135 140

Asn-Ala-Ser-Lys-Pro-Gln-Gly-Arg-Ile-Val-Gly-Gly-Lys-Val-Cys-Pro-Lys-Gly-145 150 155 160

Glu-Cys-Pro-Trp-Gln-Val-Leu-Leu-Leu-Val-Asn-Gly-Ala-Gln-Leu-Cys-Gly-Gly165 170 175 180

Thr-Leu-Ile-Asn-Thr-Ile-Trp-Val-Val-Ser-Ala-Ala-His-Cys-Phe-Asp-Lys-Ile185 190 195

Fig. 1 (continued)

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Lys-Asn-Trp-Arg-Asn-Leu-Ile-Ala-Val-Leu-Gly-Glu-His-Asp-Leu-Ser-Glu-His-200 205 210 215

Asp-Gly-Asp-Glu-Gln-Ser-Arg-Arg-Val-Ala-Gln-Val-Ile-Ile-Pro-Ser-Thr-Tyr-220 225 230

Val-Pro-Gly-Thr-Thr-Asn-His-Asp-Ile-Ala-Leu-Leu-Arg-Leu-His-Gln-Pro-Val-235 240 245 250

Val-Leu-Thr-Asp-His-Val-Val-Pro-Leu-Cys-Leu-Pro-Glu-Arg-Thr-Phe-Ser-Glu-255 260 265 270

Arg-Thr-Leu-Ala-Phe-Val-Arg-Phe-Ser-Leu-Val-Ser-Gly-Trp-Gly-Gln-Leu-Leu-275 280 285

Asp-Arg-Gly-Ala-Thr-Ala-Leu-Glu-Leu-Met-Val-Leu-Asn-Val-Pro-Arg-Leu-Met-290 295 300 305 306

Thr-Gln-Asp-Cys-Leu-Gln-Gln-Ser-Arg-Lys-Val-Gly-Asp-Ser-Pro-Asn-Ile-Thr-310 315 320

Glu-Tyr-Met-Phe-Cys-Ala-Gly-Tyr-Ser-Asp-Gly-Ser-Lys-Asp-Ser-Cys-Lys-Gly-325 330 335 340

Asp-Ser-Gly-Gly-Pro-His-Ala-Thr-His-Tyr-Arg-Gly-Thr-Trp-Tyr-Leu-Thr-Gly-345 350 355 360

Ile-Val-Ser-Trp-Gly-Gln-Gly-Cys-Ala-Thr-Val-Gly-His-Phe-Gly-Val-Tyr-Thr-365 370 375

Arg-Val-Ser-Gln-Tyr-Ile-Glu-Trp-Leu-Gln-Lys-Leu-Met-Arg-Ser-Glu-Pro-Arg-380 385 390 395

Pro-Gly-Val-Leu-Leu-Arg-Ala-Pro-Phe-Pro

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Fig. 2

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SEQ ID NO:2 (DNA primer for preparation of L305V-FVII):
5'-CGT GCC CCG GGT GAT GAC CCA GGA C-3';
SEQ ID NO:3 (DNA primer for preparation of L305V-FVII):
5'-GTC CTG GGT CAT CAC CCG GGG CAC G-3';
SEQ ID NO:4 (DNA primer for preparation of K337A-FVII):
5'-CGG ATG GCA GCG CGG ACT CCT GCA AGG G-3';
SEQ ID NO:5 (DNA primer for preparation of K337A-FVII):
5'-CCC TTG CAG GAG TCC GCG CTG CCA TCC G-3';
SEQ ID NO:6 (DNA primer for preparation of V158D-FVII):
5'-GTG GGG GGC AAG GAC TGC CCC AAA GGG G-3';
SEQ ID NO:7 (DNA primer for preparation of V158D-FVII):
5'-CCC CTT TGG GGC AGT CCT TGC CCC CCA C-3';
SEQ ID NO:8 (DNA primer for preparation of E296V/M298Q-FVII):
5'-GCC ACG GCC CTG GTG CTC CAG GTC CTC AAC GTG CCC-3';
SEQ ID NO:9 (DNA primer for preparation of E296V/M298Q-FVII):
5'-GGG CAC GTT GAG GAC CTG GAG CAC CAG GGC CGT GGC-3';
SEQ ID NO:10 (DNA primer for preparation of S314E-FVII):
5'-GCC TGC AGC AGG AAC GGA AGG TGG GAG ACT CC-3';
SEQ ID NO:11 (DNA primer for preparation of S314E-FVII):
5'-GGA GTC TCC CAC CTT CCG TTC CTG CTG CAG GC-3';
SEQ ID NO:12 (DNA primer for preparation of F374Y-FVII):
5'-CGC AAC CGT GGG CCA CTA TGG GGT GTA CAC C-3';
SEQ ID NO:13 (DNA primer for preparation of F374Y-FVII):
5'-GGT GTA CAC CCC ATA GTG GCC CAC GGT TGC G-3'.
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